

Commissioner of Patents and Trademarks  
Washington, D.C. 20231



GRAU 2734  
PATENT  
Docket No. D-362

Transmitted herewith for filing is original oath of

Inventor(s): Tien M. Nguyen

For (title): Quadrature Product Subcarrier Modulation Method

Filed: 5/26/99

Application No. 09/318,560

Group Art Unit: 2734

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**CERTIFICATION UNDER 37 CFR 1.10**

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date September 16, 1999 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EJ38037753910 addressed to the: Commissioner of Patents and Trademarks, Washington, D.C. 20231

Carole A. Mulchinski

(Type or print name of person mailing paper)

Carole A. Mulchinski

(Signature of person mailing paper)

Reg. No.: 32,096

Derrick Michael Reid  
Signature of Attorney

Tel. No. (310) 336-6708

Derrick Michael Reid  
Type or print name of attorney

THE AEROSPACE CORPORATION  
P.O. Box 92957 (M1/040)  
Los Angeles, CA 90009-2957

☒ This transmittal ends with this page.

(Transmittal page 1 of 1)

**PATENT**

Attorney's Docket No. D-362

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**COMBINED DECLARATION AND POWER OF ATTORNEY**

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As a below named inventor, I hereby declare that:

**TYPE OF DECLARATION**

This declaration is of the following type:

/X/ original

**INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

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QUADRATURE PRODUCT SUBCARRIER MODULATION METHOD

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**SPECIFICATION IDENTIFICATION**

The specification of which was filed on 5/26/99, serial number 09/318,560.

**ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations section 1.56(a).

/ In compliance with this duty there is attached an information disclosure statement. 37 CFR 1.97.

(Declaration & Power of Attorney --page 1 of 2)

## POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney(s) and/or agents(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Derrick Michael Reid, Reg. No. 32,096

## SEND CORRESPONDENCE TO:

Derrick M. Reid  
Patent Attorney  
The Aerospace Corporation  
P. O. Box 92957 (M1/040)  
Los Angeles, CA 90009-2957



## DIRECT TELEPHONE CALLS TO:

Derrick M. Reid  
(310) 336-6708

## DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## SIGNATURE(S)

Full name of sole or first inventor: Philip A. Dafesh

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Country of Citizenship: U.S.A.

Residence: 3541 Tilden Avenue, Los Angeles, California 90034

Post Office Address: 3541 Tilden Avenue, Los Angeles, California 90034

Full name of second joint inventor, if any, Tien M. Nguyen

Inventor's signature: [Signature] Date: 9/16/99

Country of Citizenship: U.S.A.

Residence: 433 Swanson Avenue, Placentia, California 92870

Post Office Address: 433 Swanson Avenue, Placentia, California 92870

Full name of third joint inventor, if any: \_\_\_\_\_

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Country of Citizenship: \_\_\_\_\_

Residence: \_\_\_\_\_ Post Office

Address: \_\_\_\_\_

☒ This Declaration ends with this page-- page 2 of 2)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Philip A. Dafesh  
Tien M. Nguyen

DOCKET: D-362

FOR: QUADRATURE PRODUCT SUBCARRIER MODULATION METHOD

Commissioner of Patents and Trademarks  
Washington, DC 20231  
Attention: Assignment Branch

ASSIGNMENT COVER LETTER  
ACCOMPANYING NEW PATENT APPLICATION

Dear Sir:

Please record the enclosed assignment.

1. IDENTITY OF PARTY MAKING TRANSFER

Philip A. Dafesh and Tien M. Nguyen

2. IDENTITY OF PARTY TO WHOM TRANSFER IS MADE

Internal Address: The Aerospace Corporation  
P.O. Box 92957  
Los Angeles, CA 90009

Street Address: The Aerospace Corporation  
2350 East El Segundo Boulevard  
El Segundo, CA 90245

3. NATURE OF CONVEYANCE

Assignment

4. EXECUTION DATES

The enclosed assignment was executed on May 25, 1999.

The above-mentioned new application filed with the enclosed assignment was executed on May 25, 1999.

5. APPLICATIONS AND PATENTS INVOLVED

The above-mentioned new application is the only application or patent involved.

6. FEE DUE (authorized to be charged to deposit account)

\$40.00

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7. DEPOSIT ACCOUNT NUMBER (duplicate copy of this page is attached)

01-0428

8. ADDRESS TO RETURN ASSIGNMENT AFTER RECORDAL BY PTO

Mr. Derrick M. Reid  
Patent Attorney  
The Aerospace Corporation  
M1/040  
P.O. Box 92957  
Los Angeles, CA 90009

9. SIGNATURE AND STATEMENT

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Respectfully submitted,



Derrick Michael Reid  
Reg. No. 32,096

Date: \_\_\_\_\_

5-26-99

The Aerospace Corporation  
P.O. Box 92957  
Los Angeles, CA 90009  
(310) 336-6708

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PATENT OR DESIGN; SOLE OR JOINT  
(U.S. AND FOREIGN RIGHTS)

ASSIGNMENT FOR UNFILED APPLICATION FOR UNITED STATES  
PATENT

(Sole or Joint Inventors)

WHEREAS:

FULL NAME(S) AND  
POST OFFICE ADDRESS(S)  
OF INVENTOR(S) (including  
country)

Philip A. Dafesh  
3541 Tilden Avenue  
Los Angeles, CA 90034  
U.S.A.

Tien M. Nguyen  
433 Swanson Avenue  
Placentia, CA 92870  
U.S.A.

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(hereinafter referred to as  
ASSIGNOR), have invented and known a  
certain invention entitled:

TITLE OF  
INVENTION

QUADRATURE PRODUCT SUBCARRIER  
MODULATION METHOD

for which application for Letters  
Patent of the United States has  
been executed on even date  
herewith,

WHEREAS:

FULL NAME AND  
ADDRESS (including country  
OF ASSIGNEE

The Aerospace Corporation  
2350 E. El Segundo Boulevard  
El Segundo, CA 90245  
U.S.A.

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to

ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters of Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal.

WARNING

DATE OF SIGNING:

This must be the same as the date of signing of the declaration and power of the patent or design application.

Philip A. Dafesh 5/26/99  
Philip A. Dafesh Date

SIGNATURE(S)

The signature(s) must correspond with the name(s) of the inventor(s) above.

Tien M. Nguyen 9/16/99  
Tien M. Nguyen Date

\_\_\_\_\_  
Date